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(to be used for all correspondence after initial filing)

Total Number of Pages in This Submission

Application Number 09/826,583

Filing Date April 6, 2001

First Named Inventor Unger, Marc

Art Unit 3753

Examiner Name Chambers, A. Michael

Attorney Docket Number 20174C-003010US

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			EN	CLOSURES (Che	ck all that apply)			
	Fee Trans	mittal Form		Drawing(s)		\boxtimes	After Allowance Communication to Examiner		
	F6	ee Attached		Licensing-related Pape	rs	-	Appeal Communication to Board of Appeals and Interferences		
	Extension Express A	ent/Reply fiter Final ffidavits/declaration(s) of Time Request bandonment Request n Disclosure Statement	Petition Petition Petition to Convert to a Provisional Application Power of Attorney, Revocation Change of Correspondence Addree Terminal Disclaimer Request for Refund CD, Number of CD(s)			Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) Proprietary Information Status Letter Other Enclosure(s) (please identibelow): -Return Postcard -Copy of IDS, transmittal, and postcard submitted 12/14/2001 -Copies of nine (9) cited References from			
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Reply to Missing Parts/ Incomplete Application Reply to Missing Parts under 37 CFR 1.52 or 1.53									
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Firm N	lame	Townsend and Towns	send a	nd Crew LLP					
Signat	ure	Petel re			•				
Printed	d name	Patrick M. Boucher							
Date 2004 December			. 7		Reg. No.	44,0	37		

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TOWNSEND and TOWNSEND and CREW LLP

Nicole M. Warrell

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Marc Unger et al.

Application No.: 09/826,583

Filed: April 6, 2001

For: MICROFABRICATED

ELASTOMERIC VALVE AND PUMP

SYSTEMS

Examiner:

Chambers, A. Michael

Art Unit:

3753

COMMUNICATION

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

Sir:

This communication provides courtesy copies of the Information Disclosure Statement filed on December 14, 2001. It appears from the Image File Wrapper on the U.S.P.T.O. website and file history that this IDS was never considered by the Examiner. The copy of the IDS provided is identical to that submitted on December 14, 2001. A copy of a date-stamped postcard is also enclosed to show prior receipt of the IDS by the U.S. Patent Office on January 23, 2002. Applicants also enclose herewith

PATENT

Application No.: 09/826,583

Page 2

copies of the cited non-patent literature references identical to those cited in the December 14, 2001 IDS for the Examiner's convenience.

Applicants would also like to make the Examiner aware of the November 21, 2001 references that have not been made of record in this application. This communication provides courtesy copies of the Information Disclosure Statement filed on November 21, 2001. The copy of the IDS provided is identical to that submitted on November 21, 2001. A copy of a date-stamped postcard is also enclosed to show prior receipt of the IDS by the U.S. Patent Office on January 4, 2002. The references cited in this particular IDS were submitted to the U.S. Patent Office by hand on January 23, 2004.

Applicants request that cited references from the Information Disclosure Statements submitted on December 14, 2001 and the non-patent literature references submitted on November 21, 2001 be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

Applicants request that Examiner Chambers consider these references and provide applicants a checked-off copy of the attached Information Disclosure Statements to show that these references have been considered pursuant to 37 CFR § 1.97.

If the Examiner has any questions regarding this submission, please call the undersigned at 303-571-4000.

Respectfully submitted,

ituh &Com Patrick M. Boucher Reg. No. 44,037

TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, Eighth Floor San Francisco, California 94111-3834

Tel: (415) 576-0200 Fax: (415) 576-0300

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1) Supplemental Information Disclosure Statement (Inder 1977) \$1.97 and §1.98

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2) Form PTO/SB/08A/08B

3) Return Postcard

Applicant: Unger et al. Application No.: 09/826,583

Filing Date: April 6, 2001

For: MICROFABRICATED ELASTOMERIC VALVE AND PUMP

SYSTEMS' Date Dué:

Date of Mailing: 12/14/2001 Attorney: KJT sec. crf

Attorney Docket

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1) Supplemental Information Disclosure Statement Under 37 CFR §1.97 and §1.98

2) Form PTO/SB/08A/08B

3) Return Postcard

Applicant: Unger et al. Application No.: 09/826,583 Filing Date: April 6, 2001

For: MICROFABRICATED ELASTOMERIC VALVE AND PUMP

SYSTEMS Date Dué:

Date of Mailing: 12/14/2001

Attorney: KJT sec. crf

Attorney Docket: 20174C-003010US

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and Individual name	Kent J. Tobin			Reg No	. 39,496			
Signature	07		<u> </u>	·				
Date December 14, 2001								
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Signature					Date	December 14, 2001		

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Attorney Docket No.: 20174C-003010US Client Reference No.: CIT No.: P3492

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Marc Unger et al.

Application No.: 09/826,583

Filed: April 6, 2001

For: MICROFABRICATED

ELASTOMERIC VALVE AND PUMP

SYSTEMS

Examiner:

Unassigned

Art Unit:

1772

SUPPLEMENTAL INFORMATION
DISCLOSURE STATEMENT UNDER 37 CFR

§1.97 and §1.98

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

The references cited on attached form PTO/SB/08A/08B are being called to the attention of the Examiner. In accordance with CFR §1.98(d), copies of the references can be found in Application No. 09/724,784, filed November 28, 2000 (Attorney docket No. 20174C-003000US). It is respectfully requested that the cited references be expressly considered during the prosecution of this application, and the references be made of record therein and appear among the "references cited" on any patent to issue therefrom.

As provided for by 37 CFR 1.97(g) and (h), no representation is being made that a search has been conducted or that this statement encompasses all the possible relevant information, and no inference should be made that the information and references cited are, or are considered to be material to patentability because they are in this statement. No inference should be made that the information and references cited are prior art merely because they are in this statement.

Application No.: 09/826,583

Page 2

Applicant believes that <u>no fee is required</u> for submission of this statement, since it is being submitted prior to the first Office Action. However, if a fee is required, the Commissioner is authorized to deduct such fee from the undersigned's Deposit Account No. 20-1430. Please deduct any additional fees from, or credit any overpayment to, the above-noted Deposit Account.

Respectfully submitted,

Kent J. Tobin Reg. No. 39,496

TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, 8th Floor San Francisco, California 94111-3834

Tel: 650-326-2400 Fax: 650-326-2422

KJT:crf

PA 3189999 v1

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PTO/SB/08A (08-00)

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Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB porticol number. Substitute for form 1449A/PTO Complete if Known **Application Number** 09/826,583 INFORMATION DISCLOSURE **Filing Date** 04/06/01 STATEMENT BY APPLICANT **First Named Inventor** Unger **Group Art Unit** 1772 (use as many sheets as necessary) **Examiner Name** Unassigned

Attorney Docket Number

20174C-003010US

				U.S. PATENT DOCUM	MENTS	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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¹ Unique citation designation number. 2 See attached Kinds of U.S. Patent Documents. 3 Enter Office that Issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 6 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

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Substitute for form 1449B/PTO Complete if Known **Application Number** 09/826,583 INFORMATION DISCLOSURE 04/06/01 Filing Date STATEMENT BY APPLICANT **First Named Inventor** Unger 1772 **Group Art Unit** (use as many sheets as necessary) **Examiner Name** Unassigned Sheet Attorney Docket Number 20174C-003010US

		OTHER PRIOR ART NON PATENT LITERATURE DOCUMENTS	
Examiner Initials *	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T²
	1	Ahn et al., "Fluid Micropumps Based on Rotary Magnetic Actuators," <u>Proceedings of 1995 IEEE Micro Electro Mechanical Systems Workshop (MEMS '95)</u> , held in Amsterdam, Netherlands on 1/29-2/2/95, pgs. 408-412 (1995).	
	2	Benard et al., "A Titanium-Nickel Shape-Memory Alloy Actuated Micropump," <u>Proceedings of Transducers '97</u> , 1997 International Conference on Solid-State Sensors and Actuators, held in Chicago, Il., 6/16-19/1997, 1:361-364 (1997).	
	3	Gerlach, T., "Pumping Gases by a Silicon Micro Pump with Dynamic Passive Valves," <u>Proceedings of Transducers '97</u> , 1997 International Conference on Solid-State Sensors and Actuators, held in Chicago, II., 6/16-19/1997, 1:357-360 (1997).	
	4	Jerman, H., "Electrically-Activated, Normally-Closed Diaphragm Valves," <u>Proceedings of Transducers '91</u> , 1991 International Conference on Solid-State Sensors and Actuators, pages 1045-1048 (1991).	
	5	Olsson et al., "Simulation Studies of Diffuser and Nozzle Elements for Valve-less Micropumps," <u>Proceedings of Transducers '97</u> , 1997 International Conference on Solid-State Sensors and Actuators, held in Chicago, Il., 6/16-19/1997, 2:1039-1042 (1997).	
	6	Shoji et al., "Smallest Dead Volume Microvalves for Integrated Chemical Analyzing Systems," <u>Proceedings of Transducers '91</u> , 1991 International Conference on Solid-State Sensors and Actuators, pages 1052-1055 (1991).	
	7	Vieider et al., "A Pneumatically Actuated Micro Valve with a Silicone Rubber Membrane for Integration with Fluid-Handling Systems," <u>Proceedings of Transducers '95</u> , the 8th International Conference on Solid-State Sensors and Actuators and Eurosensors IX, held in Stockholm, Sweden on 6/25-29/95, 2:284-286 (1995).	
	8	Xia et al., "Micromolding in Capillaries: Applications in Material Science," J. American Chemical Society, 118:5722-5731 (1996).	
	9	Yang et al., "A MEMS Thermopneumatic silicone Membrane Valve," <u>Proceedings of the IEEE 10th Annual Workshop of Micro Electro Mechanical Systems Workshop (MEMS '97)</u> , held 1/26-30/97 in Nagoya, Japan, pages 114-118 (1997).	

Examiner	·	Date	
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EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

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¹ Unique citation designation number. ² Applicant is to place a check mark here if English language Translation is attached.



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Documents:

1) Supplemental Information Disclosure Statement Under 37 FR \$1.97

and §1.98

2) Form PTO/SB/08A/08B

3) Return Postcard

Applicant: Unger et al. Application No.: 09/826,583

Filing Date: April 6, 2001

For MICROFABRICATED ELASTOMERIC VALVE AND

SYSTEMS

Date Due: Date of Mailing: 11/21/2001

Attorney: KJT sec. crf

Attorney Docket: 20174C-003010US

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- 2) Form PTO/SB/08A/08B
- 3) Return Postcard

Applicant: Unger et al. Application No.: 09/826,583 Filing Date: April 6, 2001

For: MICROFABRICATED ELASTOMERIC VALVE AND PUMP

SYSTEMS Date Due:

Date of Mailing: 11/21/2001 Attorney: KJT sec. crf

Attorney Docket: 20174C-003010US

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Attorney Docket No.: 20174C-003010US Client Reference No.: CIT No.: P3492

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re application of:

Marc Unger et al.

Application No.: 09/826,583

Filed: April 6, 2001

For: MICROFABRICATED

ELASTOMERIC VALVE AND PUMP

SYSTEMS

Examiner:

Unassigned

Art Unit:

1772

SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT UNDER 37 CFR

§1.97 and §1.98

Assistant Commissioner for Patents Washington, D.C. 20231

Sir:

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Application No.: 09/826,583

Page 2

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Respectfully submitted,

Kent J. Tobin

Reg. No. 39,496

TOWNSEND and TOWNSEND and CREW LLP

Two Embarcadero Center, 8th Floor San Francisco, California 94111-3834

Tel: 650-326-2400 Fax: 650-326-2422

KJT:crf

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STATEMENT BY APPLICANT	First Named Inventor	Unger	13

Group Art Unit

Examiner Name

Attorney Docket Number

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¹ Unique citation designation number. ² See attached Kinds of U.S. Patent Documents. ³ Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). ⁴ For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵ Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶ Applicant is to place a check mark here if English language Translation is attached.









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Substitute	for form 1449B/PT	0			Complete if Known	7
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			CLOSURE	Filing Date	04/06/01	
STAT	EMENT B	YA	PPLICANT	First Named Inventor	Unger	1
				Group Art Unit	1772	1
	(use as many sh	eets as	necessary)	Examiner Name	Unassigned]
Sheet	2	of	2	Attorney Docket Number	20174C-003010US	7

Examiner Initials	Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.						
	1	Gass et al., "Integrated flow-regulated silicon micropump," Sensors and Actuators A, 43335-338 (1994).						
	. 2	Sohn et al., "Capacitance cytometry: Measuring biological cells one by one," PNAS, 97(20):10687-10690 (2000).						
	3	Zengerle et al., "A Micro Membrane Pump with Electrostatic Actuation," 1992 IEEE Conf. on Micro Electro Mechanical Systems, held 2/4-7/92 in Travemunde Germany, pgs. 19-24.						
	Zengerle et al., "Performance Simulation of Microminiaturized Membrane Pumps," from 7th International Conference on Solid-State Sensors and Actuators held 6/7-10/93 in Yokohama Japan, pages 106-109.							
					NYO			
Examiner Signature		Dat Cor	te nsidered					

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